IN THE CLAIMS:

Claims 4-6, 9, 13, 15, 17, 21, 24, 25, 27, 29, 31, 32, 39, and 42 have been amended herein. All of the pending claims 1 through 44 are presented below. This listing of claims will replace all prior versions and listings of claims in the application. Please enter these claims as amended.

1. (Original) A method for producing mRNA encoding Plasmodium AMA-1 ectodomain, or a functional part, derivative and/or analogue thereof, in a yeast cell, said method comprising:

providing said yeast cell with a nucleic acid encoding said ectodomain or functional part, derivative and/or analogue thereof, said nucleic acid being modified to utilize said yeast's codon usage.

- 2. (Original) The method according to claim 1, further comprising allowing for expression of said Plasmodium AMA-1 ectodomain or functional part, derivative and/or analogue thereof in said yeast cell.
- 3. (Original) The method according to claim 2, further comprising purifying said Plasmodium AMA-1 ectodomain or functional part, derivative and/or analogue thereof.
- 4. (Amended) The method according to any one of claims 1-3 claim 1, wherein at least one putative yeast polyadenylation consensus sequence in the nucleic acid has been modified.
- 5. (Amended) The method according to any one of claims 1-4 claim 1, wherein at least one site in said Plasmodium AMA-1 ectodomain or functional part, derivative and/or analogue thereof that is generally glycosylated by eukaryotic expression systems, has been removed.
- 6. (Amended) The method according to any one of claims 1-5 claim 1, wherein the Plasmodium belongs to the clade whose members express AMA-1 protein as an approximately 83 kDa protein. 20
- 7. (Original) The method according to claim 6, wherein the Plasmodium comprises Plasmodium falciparum.
- 8. (Original) The method according to claim 7, wherein the Plasmodium is Plasmodium falciparum FVO.

- 9. (Amended) The method according to any one of claims 1-8 claim 1, wherein said yeast is Pichia.
 - 10. (Original) The method according to claim 9, wherein said yeast is Pichia pastoris.
- 11. (Original) An isolated and/or recombinant nucleic acid sequence encoding Plasmodium ANU-1 ectodomain or a functional part, derivative and/or analogue thereof, said nucleic acid being modified to utilize a yeast's codon usage.
- 12. (Original) The isolated and/or recombinant nucleic acid sequence of claim 11, wherein at least one putative yeast polyadenylation consensus sequence has been modified.
- 13. (Amended) The isolated and/or recombinant nucleic acid sequence of claim 11 or elaim 12, wherein at least one site in said ectodomain or functional part, derivative and/or analogue thereof that is generally glycosylated by eukaryotic expression systems, has been removed.
- 14. (Original) An isolated and/or recombinant nucleic acid sequence encoding Plasmodium AMA-1 ectodomain or a functional part, derivative and/or analogue thereof, said nucleic acid comprising a sequence depicted in Figure 1.
- 15. (Amended) A nucleic acid sequence, said nucleic acid sequence being an AMA-1 specific nucleic acid sequence and capable of hybridizing to at least a functional part of the nucleic acid sequence of any one of claims-11-14 claim 11.
- 16. (Original) The nucleic acid sequence of claim 15, wherein said hybridization is under stringent conditions.
- 17. (Amended) A nucleic acid sequence, which is an AMA- I 1 specific nucleic acid sequence, said nucleic acid sequence having at least 50 percent homology to the isolated and/or recombinant nucleic acid sequence of any one of claims 11-14 claim 11.
- 18. (Original) The nucleic acid sequence of claim 17, having at least 60 percent homology to said isolated and/or recombinant nucleic acid sequence.
- 19. (Original) The specific nucleic acid sequence of claim 17, having at least 75 percent homology to said isolated and/or recombinant nucleic acid sequence.
- 20. (Original) The nucleic acid sequence of claim 17, having at least 90 percent homology to said isolated and/or recombinant nucleic acid sequence.

- 21. (Amended) The nucleic acid sequence of any one of claims 11-20 claim 11, wherein said Plasmodium belongs to the clade whose members express AMA-1 protein as an approximately 83 kDa protein.
- 22. (Original) The nucleic acid sequence of claim 21, wherein said Plasmodium comprises Plasmodium falciparum.
- 23. (Original) The nucleic acid of claim 22, wherein said Plasmodium is Plasmodium falciparum FVO.
- 24. (Amended) The nucleic acid sequence of any one of claims 11-23 claim 11, wherein said ectodomain or functional part, derivative and/or analogue thereof comprises a consensus Plasmodium AMA-I ectodomain or a functional part, derivative and/or analogue thereof.
- 25. (Amended) The nucleic acid sequence of any one of claims 11-24 claim 11, wherein said yeast is Pichia.
- 26. (Original) The nucleic acid sequence of claim 25, wherein said yeast is Pichia pastoris.
- 27. (Amended) A process for producing Plasmodium AMA-1 ectodomain or a functional part, derivative and/or analogue thereof, said method comprising:
 - -providing a yeast cell with the nucleic acid of any one of claims 11-26 claim 11 and,
- -collecting formed Plasmodium AMA-1 ectodomain or functional part, derivative and/or analogue thereof.
- 28. (Original) The process of claim 27, further comprising purifying said ectodomain or functional part, derivative and/or analogue thereof.
 - 29. (Amended) The process of claim 27 or claim 28, wherein said yeast is Pichia.
 - 30. (Original) The process of claim 29, wherein said yeast is Pichia pastoris.
- 31. (Amended) A Plasmodium AMA-1 ectodomain or a functional part, derivative and/or analogue thereof, obtainable by a process of any one of claims 27—30 claim 27.
- 32. (Amended) An isolated cell comprising the nucleic acid of any one of claims 11-26 claim 11.
- 33. (Original) The isolated cell of claim 32, further comprising a Plasmodium AMA-1 ectodomain or a functional part, derivative and/or analogue thereof.

- 34. (Original) A vaccine comprising the Plasmodium AMA-1 ectodomain or functional part, derivative and/or analogue thereof of claim 31.
 - 35. (Original) The vaccine of claim 34 for use in preventing malaria.
 - 36. (Original) The vaccine of claim 34 together with a suitable expedient.
- 37. (Original) The vaccine of claim 35, wherein said malaria is caused by Plasmodium falciparum.
- 38. (Original) The vaccine of claim 34, wherein said Plasmodium AAIA-1 ectodomain or functional part, derivative and/or analogue thereof is linked to C3d.
- 39. (Amended) The vaccine of any one of claims claim 34, wherein the malaria comprises Plasmodium falciparum FVO.
- 40. (Original) A vaccine comprising a proteinaceous molecule capable of binding a Plasmodium AMA-1 ectodomain or a functional part, derivative and/or analogue thereof.
- 41. (Original) A method of diagnosing a disease state in a subject, said method comprising using a Plasmodium AMA-1 ectodomain or functional part, derivative and/or analogue thereof of claim 31 to diagnosing the disease state.
- 42. (Amended) A method for, at least in part, providing prophylaxis against malaria, said method comprising administering the vaccine of any one of claims 34-39 claim 34 to a subject.
- 43. (Original) The method of claim 42, comprising administering to a subject slow release compositions comprising said vaccine.
- 44. (Original) A method for, at least in part, diagnosing malaria, said method comprising:

collecting a sample from an individual and

providing Plasmodium AMA-1 ectodomain or functional part, derivative and/or analogue thereof according to claim 31 with at least part of said sample.